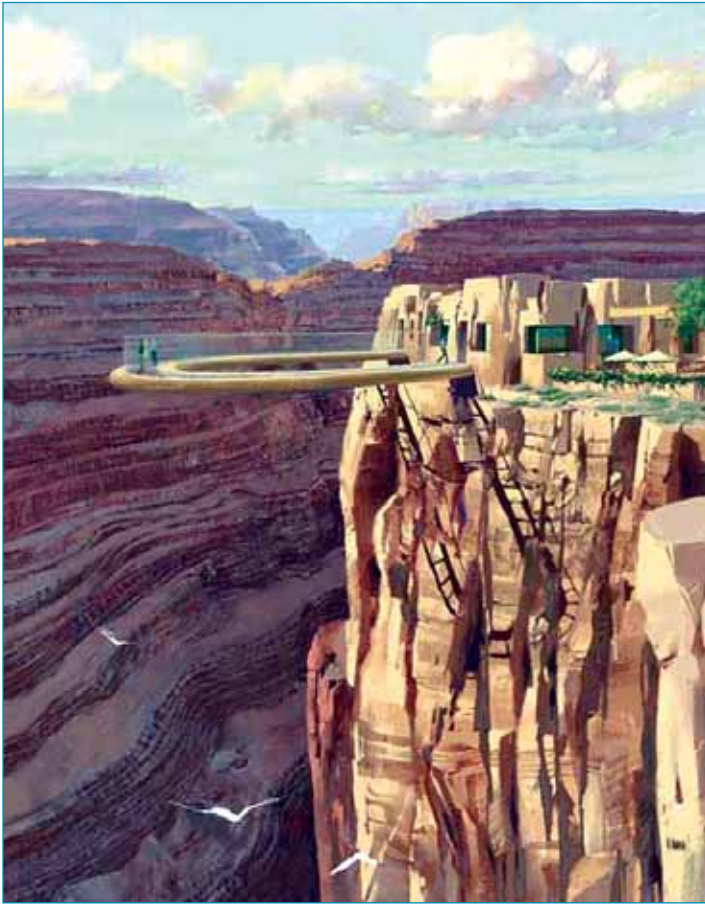


## Grand Canyon West Airport Takes Flight

### Major Attraction

The Grand Canyon West is Arizona's fifth busiest airport, due in large part to the nearby Grand Canyon Skywalk attraction on the Hualapai Indian reservation. The airport is undergoing a long term \$45 million expansion to accommodate larger aircraft. Up to 5,000 people per day visit the Canyon Skywalk attraction, which is located about 120 miles southeast of Las Vegas, NV on the southern rim of the Grand Canyon.



Artist rendition of the Grand Canyon Skywalk attraction

### Project Team

IWS teamed with Show Low Construction (Show Low), the general contractor, to construct the onsite wastewater facility being built as part of the expansion. The site geology was challenging, with two feet of top soil and then solid bedrock. Show Low provided the blasting services to enable IWS to set the tanks and run the interconnecting piping. Rock had to be blasted down to depths of 16 feet in some areas. Clint Neff, PM for Show Low, summed it up, "IWS was a valuable team partner and did a great job".

### Challenging Schedule

The project schedule was extremely tight for the wastewater



Tanks set in excavated bedrock

treatment system as there were other site improvements that were being constructed concurrently which put the wastewater system in the critical path. IWS mobilized and completed construction within 45 days onsite.



Advantex AX-100 treatment pods installed at grade elevation

### System Design

The treatment system was designed for a flow of 30,000 gallons per day and composed of the following: three, 25,000 gallon septic tanks; one 20,000 gallon recirculation tank; one 15,000 gallon dosing tank; twelve Orenco Advantex AX-100 treatment pods; and Geoflow drip disposal. Due to the bedrock conditions, the dispersal area was designed to take advantage of evapotranspiration in the high desert environment. •